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| 10/617,968  | 07/10/2003  | Arvind Prabhakar     | 03226.441001;SUN030150       | 4049             |
| 32615   | 7590        | 05/24/2007           |                              |                  |
| OSHA LIANG L.L.P./SUN<br>1221 MCKINNEY, SUITE 2800<br>HOUSTON, TX 77010 |             |                      | EXAMINER<br>SMARTH, GERALD A |                  |
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

**Application No.**

10/617,968

**Applicant(s)**

PRABHAKAR ET AL.

**Examiner**

Gerald Smarth

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-29 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-29 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____.  |

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claim 1-29 rejected under 35 U.S.C. 102(b) as being anticipated by Kirsch et al (US6189030).

Claim 1 Kirsch teaches a computer system comprising: a portal server; (fig 1 element 16) a plurality of web applications; a web browser for browsing said web applications on the Internet; and an application redirect control system (fig 6 element 100) for controlling application request redirects in said plurality of web applications. ( *Kirsch denotes specifically, the embedded information controls the operation of the Web browser on the client computer system sufficient to issue a notification URL 98 directed to the redirection target server system 88. Column 13 lines 45-49*)

Regarding claim 2 Kirsch taught the computer system of claim 1, wherein said application redirect control system (fig 6 element 100) restricts application redirect loops in said plurality of web applications. ( *Kirsch discloses as each client request client is examined to determine whether the request embeds the redirect key word 44. If the URL data does not specify a redirection request consistent with the present invention, the URL data is checked 46 to determine whether the URL data conventionally specifies an existent local web page. If the web page does not exist or, based on the client*

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*identification data provided via the HTTP protocol in connection with the URL client recount, the particular client is not permitted access to the existent web page. Column 10 lines 41-51)*

Regarding claim 3 Kirsch taught the computer system of claim 2, as described above. Kirsch further teaches wherein said application redirect control system(fig 6 element 100) prevents application request redirects from occurring during the processing of a user request to said plurality of web applications(fig 3 element 48 & 52). *(Kirsch discloses where the request is determined to be invalid for any reason, an appropriate denial message is generated and issued 48. Column 11 lines 6-11)*

Regarding claim 4 Kirsch taught the computer system of claim 3, as described above. Kirsch further teaches wherein said application redirect control system comprises a redirect tracking unit for tracking said application request redirects within said plurality of web applications. *(Kirsch discloses within this general framework, the present invention enables the tracking of the selection of embedded hyperlink references by client system. Column 6 lines 49-64)*

Regarding claim 5 Kirsch taught the computer system of claim 4, as described above. Kirsch further teaches wherein said application redirect control system further comprises a user programmable counter that reaches the number of attempts a request to a particular application is redirected to another particular application. *(Kirsch discloses in an alternate embodiment of the present invention, the validation data encodes a data representation that can be used in conjunction with the HTTP protocol to provide information regarding the client system 12 that submitted the redirection URL*

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*and, optionally, the graphics series identifier data, to limit repeated user of the redirection URL by the same client system 12 within a defined short period of time, Column 8 lines 54-60; wherein a defined short period of time requires using a counter).*

Regarding claim 6, Kirsch taught computer system of claim 5, as described above. Kirsch further teaches wherein said application redirect control system further comprises a user programmable data storage unit that is defined in said web browser to uniquely track application specific redirects with said plurality of web applications.

*(Kirsch discloses the informational element includes a tracking resource locator informational element includes a tracking resource locator, referencing the tracking server system, and data identifying the informational element. Column 5 lines 25-28)*

Regarding Claim 7 Kirsch taught the computer system of claim 6, wherein said application redirect control system (fig 6 element 100) further comprises a configuration unit for configuring a maximum allowed number of redirects between the same applications in said computer system. *(Kirsch discloses as each client request client is examined to determine whether the request embeds the redirect key word 44. If the URL data does not specify a redirection request consistent with the present invention, the URL data is checked 46 to determine whether the URL data conventionally specifies an existent local web page. If the web page does not exist or, based on the client identification data provided via the HTTP protocol in connection with the URL client request, the particular client is not permitted access to the existent web page. Column 10 lines 41-51)*

Regarding claim 8 Kirsch taught the computer system of claim 1, as described above. Kirsch further teaches wherein said application redirect control system is server independent. *(Kirsch discloses in the circumstance of a server-side process as generally depicted in fig 6, the process of the present invention following from a banner click 96 results in a client browser action. Specifically, the embedded information controls the operation of the Web browser on the client computer system sufficient to issue a notification URL 98 directed to the redirection target server system 88, as shown in Fig. 5. Column 13 lines 42-49).*

Regarding claim 9 Kirsch taught the computer system of claim 6, as described above. Kirsch further teaches wherein said user programmable data storage unit is a temporary storage unit defined for a specific user session request to said plurality of web applications and when said user programmable data storage unit comprises said counter. *(Kirsch discloses consequently, any CGI program implementing an access counter or other auditing or accounting data collecting program can produce an artificially inflated access count from repeated reference to the CGI program HTML, Column 4 line 64-67. Kirsch discloses also, finally, the network operating system 28 provides for temporary and preferably including a persistent storage media such as provided by a conventional hard disk drive, Column 7 lines 38-42).*

Regarding claim 10 Kirsch taught the computer system of claim 6, as described above. Kirsch further teaches wherein said user programmable data storage unit is a persistent storage unit defined for a user's access request to said plurality of Web applications. *(Kirsch discloses finally, the network operating system 28 provides for temporary and*

*preferably including a persistent storage media such as provided by a conventional hard disk drive, Column 7 lines 38-42).*

Regarding Claim 11 Kirsch taught the computer system of claim 6, as described above. Kirsch herein said user programmable data storage unit is a cookie. *(Kirsch taught claim 6 above and further discloses the HTTPd server 30 records the values of MIME information (such as cookies) and the form variables (in this case ak and rd), Column 12 line 49-51).*

Regarding Claim 12 Kirsch taught the computer system of Claim 1, as described above. Kirsch further teaches were in said plurality of web applications are Hyper Text Transport Protocol based application. *(Kirsch discloses this data file or web page is returned in one or more response phase HTTP messages by the server, generally for display by the client browser, Column 1 line 61-64).*

Regarding claim 13 Kirsch teaches a network computer system comprising: a server (fig 5 element 90); a plurality of web applications (fig 5 element 84); a web browser for browsing said web applications on the Internet (fig 1. element 14); and an application redirect controller (fig 6 element 100) for restricting multiple point redirect loops in said plurality of web applications *(Kirsch discloses alternately, otherwise identical instantiations of an embedded redirection URL may reference any of a number of redirect servers).*

Regarding claim 14 Kirsch taught the network computer system of claim 13, as described above, Kirsch further teaches wherein said application redirect controller also restricts single point redirect loops in said plurality of web applications. *(Kirsch*

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*discloses as each client request client is examined to determine whether the request embeds the redirect key word 44. If the URL data does not specify a redirection request consistent with the present invention, the URL data is checked 46 to determine whether the URL data conventionally specifies an existent local web page. If the web page does not exist or, based on the client identification data provided via the HTTP protocol in connection with the URL client request, the particular client is not permitted access to the existent web page, Column 10 lines 41-51).*

Regarding claim 15 Kirsch taught the network computer system of claim 14, as described above. Kirsch further teaches wherein said application redirect controller (*fig 6 element 100*) prevents said redirect loops from occurring during processing of a user request to an application within said plurality of web applications (*fig 3 element 48 & 52*). (*Kirsch discloses where the request is determined to be invalid for any reason, an appropriate denial message is generated and issued 48, Column 11 line 6-11*).

Regarding claim 16 Kirsch taught the network computer system of claim 15, as stated above. Kirsch further teaches wherein said application redirect controller comprises a redirect tracking unit for tracking the number of the same redirect loops that occur within said plurality of web applications. (*Kirsch discloses within this general framework, the present invention enables the tracking of the selection of embedded hyperlink references by client system, (Column 6 line 49-52)*).

Regarding claim 17 Kirsch teaches the network computer system of claim 16, as described above. Kirsch further teaches wherein said application redirect controller further comprises a user programmable counter that records the number of attempts a



request to a particular application is redirected during processing in said particular application in said plurality of web applications.

*(Kirsch discloses as each client request client is examined to determine whether the request embeds the redirect key word 44. If the URL data does not specify a redirection request consistent with the present invention, the URL data is checked 46 to determine whether the URL data conventionally specifies an existent local web page. If the web page does not exist or, based on the client identification data provided via the HTTP protocol in connection with the URL client request, the particular client is not permitted access to the existent web page ( Column 10 lines 41-51).*

Regarding claim 18 Kirsch teaches the network computer system of claim 17, as described above. Kirsch also teaches wherein said application redirects controller further comprises a user programmable data storage unit that is defined in said web browser to uniquely track application specific redirects within said plurality of web applications. *(Kirsch discloses the informational element includes a tracking resource locator informational element includes a tracking resource locator, referencing the tracking server system, and data identifying the informational element, Column 5 lines 25-28).*

Regarding claim 19 Kirsch taught the network system of claim 18 as described above. Kirsch further describes wherein said user programmable data storage unit is a temporary storage unit defined for a specific user session request to said plurality of web applications. *(Kirsch discloses the network operating system 28 supports the execution by the CPU 26 of an HTTPd server application 30 that defines the responsive*

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*operation of the server system 16 to HTTP requests received via the network 20.*

*Finally, the network operating system 28 provides for temporary and persistent storage device 32 preferably including a persistent storage media such as provided by a conventional hard disk drive, Column 7 line 38).*

Regarding claim 20 Kirsch taught the network computer system of claim 18 as described above. Kirsch further teaches wherein said user programmable data storage unit is a persistent storage unit defined for a user access request to said plurality of web applications. (*Kirsch discloses the network operating system 28 supports the execution by the CPU 26 of an HTTPd server application 30 that defines the responsive operation of the server system 16 to HTTP requests received via the network 20. Finally, the network operating system 28 provides for temporary and persistent storage device 32 preferably including a persistent storage media such as provided by a conventional hard disk drive, Column 7 line 35-42).*

Regarding claim 21 Kirsch taught the network computer system of claim 18, as described above. Kirsch further teaches wherein said user programmable data storage unit is a cookie. (*Kirsch discloses HTTPd server 30 records the values of MIME information (such as cookies) and the form variables (in this case ak and rd), Column 12 line 49-52).* It is considered inherent by the examiner that a cookie can be a programmable data storage unit.

Regarding claim 22 Kirsch taught the network computer system of claim 21, as described above. Kirsch further teaches wherein said cookie comprises an identification of a particular redirect and a counter value related to the occurrence of

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said particular redirect. (*Kirsch discloses Finally, the data component "AA" may be utilized to provide a basic validation identifier that servers to permit the HTTPd server 30 to identify inappropriate repeated submissions of the redirection URL to the server system 16 or those that are determined to be obsolete by convention, Column 8 line 48-53).*

Regarding claim 23, taught the network computer system of claim 14, wherein said plurality of web applications are Hyper Text Transport Protocol based applications. (*Kirsch discloses this data file or web page is returned in one or more response phase HTTP messages by the server, generally for display by the client browser, Column 1 line 61-64).*

Regarding claim 24 Kirsch taught the network computer system of claim 13, as described above. Kirsch further teaches wherein said application redirect controller further comprises a configuration unit for configuring a maximum number of redirects permissible in said network computer system. (*Kirsch discloses finally, access permissions enforced by the server computer system can be checked against the identification of the client computer system 12 to categorically limit redirection to defined classes of clients, Column 11 line 6-9).*

Regarding claim number 25, Kirsch taught the network computer system of claim 13. Kirsch further teaches wherein said application redirect controller is server independent. (*Kirsch discloses a further advantage of the present invention is that the reference identifier and a redirection directive can both be maintained wholly within the URL specification discretely provided by a client HTML request, Column 5 line 44-47).*

Regarding claim 26, Kirsch teaches a method of controlling application redirection loops in a web environment, comprising: accessing an application request to a plurality of web based applications; (fig 1 element 42) detecting changes in processing said application request to a specific points in said plurality of web based applications; *(Kirsch discloses, a further detailed portion 60 of the process 40 is shown in FIG. 4. Within the operation of the HTTPd server 30, the URL data 62 is received and initially parsed 64 to identify the appropriate existence of the redirect key word. Where the specific form of the redirection URL of the present invention is a not identified 66, the URL is further processed in a conventional manner to determine whether any other form of redirection is applicable, Column 11 line 35-42);*

Determining whether said changes result in a redirection of said application request between various points in said plurality of web based applications; *(Kirsch discloses alternately, otherwise identical instantiations of an embedded redirection URL may reference any of a number of redirect servers, Column 10 line 25-27);*

Tracking and monitoring said application request when a redirection is detected. *(Kirsch discloses a general purpose of the present invention is to provide a system and method of reliably tracking and redirecting hyper-link references to external server systems, Column 5 line 15);*

Terminating processing of said application request when a redirection loop forms between said various points in said plurality of web based applications. *(Kirsch disclose where the request is determined to be invalid for any reason, an appropriate denial message is generated and issued 48, Column 11 line 9-11).*

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Regarding claim 28 Kirsch taught the method of claim 27, as described above. Kirsch also teaches, wherein said browser based data monitoring unit utilizes a cookie. *(Kirsch discloses the HTTPd server 30 records the values of MIME information (such as cookies) and the form variables (in this case ak and rd), Column 12 line 49-54).*

Regarding claim 29, Kirsch taught claim 26, as described above. Kirsch goes on to teach as wherein said terminating processing of said application request comprises terminating said application request when a predefined maximum number of said redirection loops is reached. *(Kirsch discloses finally, the data component "AA" may be utilized to provide a basic validation identifier that serves to permit the HTTPd server 30 to identify inappropriate repeated submissions of the redirection URL to the server system 16 of those that are determined to be obsolete by convention. Column 8 line 48-52)*

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gerald Smarth whose telephone number is (571)270-1923. The examiner can normally be reached on Monday-Friday(7:30am-5:00pm)est.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeff Pwu can be reached on (571)272-6798. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Gerald Smarth

05/17/07



JAMES K. TRUJILLO  
PRIMARY EXAMINER  
TC 2100